
TransLink Research Center

TransLink Research Center

TransLink Founding Members

- Metropolitan Transit Authority of Harris County
- Rockwell International
- Texas Department of Transportation
- Texas Transportation Institute
- U.S. Department of Transportation

TransLinkTM Research Center

What is TransLink?

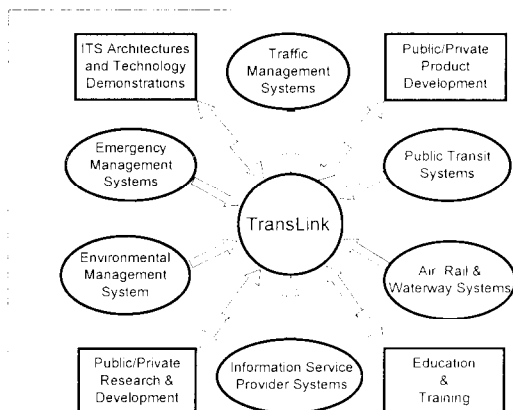
- Public/private partnership
- Multi-modal initiative
- Focused on "linking" elements of transportation system
- Laboratory using real world data
- Looking toward the next generation of transportation operations and management

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TransLinkTM Purposes

- ITS Architecture and Technology Demonstration
- Public/Private Product Development
- Public/Private Research and Development
- Education and Training

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TransLink Research Themes

- Research Laboratory and Program Development
- Railroad Subsystem Integration
- Emergency Services Integration
- Transit Information and Operations Integration
- Transportation Center Operations and Management

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Research Theme 1: Laboratory and Program Development

- Develop TransLink Laboratory facilities
- Replicate traffic management functions
- Real-time connections to TMCs
- Develop transportation information management system
- Develop and test ITS technologies
- National ITS architecture / NTCIP / TCIP

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Research Theme 2: Railroad Subsystem Integration

- Integration of railroad and transportation management centers
- Improve HRI safety
- Improve HRI traffic operations

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Research Theme 3: Emergency Services Integration

- Integrate traffic system information with emergency services dispatching
- Integrate railroad operations information with emergency services dispatching
- Integrate weather monitoring with transportation management for emergency services

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Research Theme 4: Transit Integration and Operations Integration

- Integration of traffic conditions with transit management
- Bus priority / bus management procedure
- Use of traffic management subsystem communications facilities to disseminate transit information
- Parking management

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Research Theme 5: TMC Operations and Management

- ITS coordination
- Professional Development/Training
 - Expert system for incident management
 - Expert system for environmentally sensitive traffic control strategies
 - Transportation management center automation

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Projects with U.S. DOT

- ITS coordination
- Integration of APTS with ATMS
 - Education and Training
 - Capacity development
 - Professional development
- ITS effectiveness I benefits
- TMC to TMC communication

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TransLink Laboratory Facilities

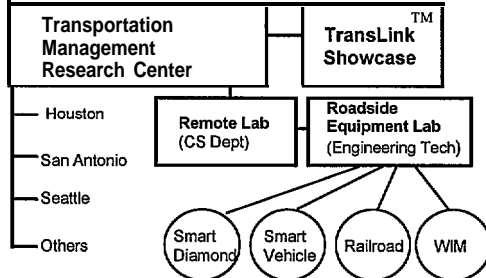
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Laboratory Functional Objectives

- Provide real-time transportation system monitoring
 - Develop real-time integrated control facilities
- Develop innovative evaluation platforms
 - Develop innovative information delivery systems
 - Demonstrate developing ITS technology

TransLink Laboratory Facilities

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